

TABLE S-5 Summary of Major EIS Data and Assumptions

Parameter/Characteristic	Data/Assumption
General	
Paducah DUF ₆ inventory	36,191 cylinders; 436,400 t (484,000 tons)
Paducah non-DUF ₆ inventory	1,667 cylinders; 17,600 t (19,400 tons)
ETTP DUF ₆ inventory	4,822 cylinders; 54,300 t (60,000 tons)
ETTP non-DUF ₆ cylinder inventory	1,102 cylinders; 26 t (27 tons)
No Action Alternative	
	No conversion facility constructed; continued long-term storage of DUF ₆ and non-DUF ₆ in cylinders at Paducah.
Assessment period	Through 2039, plus long-term impacts
Construction	3 storage yards reconstructed
Cylinder management	Continued surveillance and maintenance activities consistent with current plans and procedures.
Assumed total number of future cylinder breaches:	
Controlled-corrosion case	36
Uncontrolled-corrosion case	444
Action Alternatives	
	Build and operate a conversion facility at the Paducah site for conversion of the Paducah DUF ₆ inventory.
Construction start	2004
Construction period	≈2 years
Start of operations	2006
Operational period	25 years (28 years if ETTP cylinders are converted at Paducah)
Facility footprint	10 acres (4 ha)
Facility throughput	18,000 t/yr (20,000 tons/yr) DUF ₆
Conversion products	
Depleted U ₃ O ₈	14,300 t/yr (15,800 tons/yr)
CaF ₂	24 t/yr (26 tons/yr)
70% HF acid	3,300 t/yr (3,600 tons/yr)
49% HF acid	7,700 t/yr (8,500 tons/yr)
Steel (empty cylinders, if not used as disposal containers)	1,980 t/yr (2,200 tons/yr)